

WHAT IS CLAIMED IS:

1. A process for recovering a solid adduct of a bis(4-hydroxyaryl)alkane
5 and a phenolic compound from a suspension comprising the adduct, wherein the process
comprises the steps of
- a) supplying the suspension to a rotary filter,
 - b) filtering the supplied suspension in the rotary filter to retain adduct as an adduct
cake,
 - 10 c) pre-drying the adduct cake with an inert gas,
 - d) washing the pre-dried adduct cake,
 - e) optionally drying the washed adduct cake, and
 - f) discharging the washed adduct cake from the rotary filter.
- 15 2. The process of Claim 1 wherein the process is carried out in a rotary
pressure filter.
3. The process of Claim 1 or Claim 2 wherein the rotary filter comprises
several filtration cells (6).
- 20 4. The process of any one of Claims 1 to 3 wherein the rotary filter
comprises a rotary drum (13) comprising a suspension feed zone (1), a pre-drying zone (2),
a first wash zone (3a), a intermediate drying zone (4), a second wash zone (3b), a drying
zone (5), and a discharge zone (15).
- 25 5. The process of any one of Claims 1 to 4 wherein the suspension is fed
into the rotary filter by means of static descending force.
- 30 6. The process of any one of Claims 1 to 5 wherein the adduct cake is
pre-dried with nitrogen at a pressure of from 0.2 to 6 bar above atmospheric.

7. The process of any one of Claims 1 to 6 wherein the pre-dried adduct cake is first washed with a mixture of phenol, acetone and water and then with phenol.

8. The process of any one of Claims 1 to 6 wherein the pre-dried adduct cake is washed with phenol.

9. The process of any one of Claims 1 to 8 wherein
in step d) the pre-dried adduct cake is washed in two stages with an intermediate drying step,
in step e) the washed adduct cake is dried, and
in step f) the washed and dried adduct cake is discharged from the rotary filter.

10. The process of any one of Claims 1 to 9 wherein the suspension comprising the adduct results from the reaction of a stoichiometric excess of a phenolic compound with a carbonyl compound in the presence of an acidic cation exchange resin as a catalyst and treatment of the resulting product mixture in a crystallization device.

11. The process of any one of Claims 1 to 10 wherein an adduct of bisphenol-A and phenol is recovered.

12. An adduct of a bis(4-hydroxyaryl)alkane and a phenolic compound producible according to the process of any one of Claims 1 to 11.

13. A process for recovering a bis(4-hydroxyaryl)alkane wherein the adduct recovered according to the process of any one of claims 1 to 11 is melted and the phenolic compound is distilled off.

14. A bis(4-hydroxyaryl)alkane obtainable according to the process of Claim 13.